CLAIMS

- 1. A gum base composition comprising biodegradable ingredients, wherein saidbiodegradable ingredients include a lactic acid polymer comprising a poly-L-lactic acid polymer and/or other lactic acid polymers having a glass transition temperature of higher than 50°C in an amount of from 5% by weight to 60% by weight, and an emulsifying plasticizer in an amount of from 1% by weight to 20% by weight.
- 2. The gum base composition according to claim 1, wherein the content of said lactic acid polymer is from 10% by weight to less than 50% by weight.
- 3. The gum base composition according to claim 1 or 2, wherein said lactic acid polymer has a weight average molecular weight of 50,000 to 200,000, a glass transition temperature higher than 50°C, and a crystallinity of 20% or less.
- 4. The gum base composition according to claim 1, 2 or 3, wherein said lactic acid polymer is virtually a poly-L-lactic acid polymer.
- 5. The gum base composition according to any one of claims 1 to 4, which contains no lactic acid polymers other than a poly-L-lactic acid polymer.
- 6. The gum base composition according to any one of claims 1 to 5, wherein said lactic acid polymer is a lactic polymer having a glass transition temperature of 55 to 80° C.
- 7. The gum base composition according to any one of claims 1 to 6, which contains an acetylated monoglyceride as said emulsifying plasticizer.
- 8. The gum base composition according to claim 7, wherein the ratio by weight of said lactic acid polymer to the acetylated monoglyceride is from 90:10 to 80:20.
- 9. The gum base composition according to any one of claims 1 to 8, wherein all ingredients of said composition is biologically degradable.

- 10. A method of producing a gum base composition comprising biodegradable ingredients, which comprises steps of heat kneading and softening a lactic acid polymer comprising a poly-L-lactic acid polymer and/or other lactic acid polymers having a glass transition temperature higher than 50°C in a pressure kneader, and homogenizing the resulting softened lactic acid polymer by adding an emulsifying plasticizer to it, said biodegradable ingredients containing lactic acid polymers in an amount of from 5% by weight to less than 60% by weight.
- 11. The method of producing a gum base composition according to claim 11, wherein the temperature of said pressure kneader is $120 \text{ to } 130^{\circ}\text{C}$.
- 12. The method of producing a gum base composition according to claim 10 or 11, said lactic acid polymer is virtually a poly-L-lactic acid polymer.
- 13. The method of producing a gum base composition according to claim 10, 11 or 12, which contains no lactic acid polymers other than the poly-L-lactic acid polymer.
- 14. The method of producing a gum base composition according to any one of claims 10 to 13, which contains an acetylated monoglyceride as said emulsifying plasticizer.
- 15. The method of producing a gum base composition according to any one of claims 10 to 14, wherein the ratio by weight of said lactic acid polymer to said emulsifying plasticizer is from 90:10 to 80:20.